



SAFETY AND BUILDINGS DIVISION
Gas and NH3 Systems
141 NW Barstow Street, 4th Floor
Waukesha Wisconsin 53188
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www.commerce.state.wi.us/sb

March 1, 2003

TO: Potential Plan Designers for Liquid Petroleum Gas (LPG), Compressed Natural Gas (CNG), Liquid Natural Gas (LNG) and Anhydrous Ammonia (NH3) Tanks and Systems

FROM: Department of Commerce, Safety and Buildings Division

SUBJECT: **PLAN SUBMITTAL PROCEDURES**

Under Chapters Comm 40.10/LPG, LNG and CNG and Chapter Comm 43.10/NH3 of the Wisconsin Administrative Codes, plans must be submitted with appropriate fees per Comm Chapter 2 for approval prior to commencing construction. Plans must be reviewed within 15 days of receipt or a 50% refund of the plan exam fee shall be made per section Chapter Comm 2.07(1). The electrical requirements, an integral part of most systems must comply with Chapter Comm 16 but are not addressed during this plan examination. Since this is an attempt to provide a "general" guideline for plan submittal in several areas, designers should reference all applicable code sections for details and requirements that may not be listed below. Therefore additional information may be requested for approval determination.

Plan submittal should include:

1. APPLICATION LPG, LNG, CNG and NH3 tanks/systems: complete form **SBD-6038**
2. PLANS **Submit four (4) sets of scaled plans as required.**
Recommend scale minimum 1" = 20 feet. NOTE: For NH3 plans, plot plan showing land use within 2000 feet does not require minimum scale but should indicate land use within 2000 foot radius drawn on such drawing.
3. FEES **Enclose \$450.00 fee** (Checks payable to Safety and Buildings Division)
LPG, CNG & LNG: \$450.00 (Plan exam \$200.00 / site inspection 250.00 per Comm 2.43) NH3: \$450.00 (Plan exam and external site inspection per Comm 2.12)
4. SPECIFICATIONS **Submit at least one copy of all specifications**
Include materials, piping (welded or threaded), all valves, fittings, hoses, check/excess-flow valves, corrosion protection where applicable and etc
5. CALCULATIONS Include size, capacity and surface area of each tank (calculate if not provided on nameplate or MDR info), and state the system design pressure
6. NAME & ADDRESS Owner, Designer or Installer and Facility should be indicated on application
7. TANK SUPPORTS Clearances, type of venting, pressure relief used with combined capacity on each container or tank, foundation design and support should be provided with plan drawings
8. DISPENSERS Location of emergency controls, location of dispensers and details of dispensing devices should be indicated on plans

In addition to the above, scaled plans should be clear, legible and permanent, include names of adjacent streets, alleys, railways and highways, indicate property and lot lines in all directions, show all buildings on property with type of construction, the layout of buildings, containers, loading and unloading docks and any body of water within 150 feet of the containers must be identified. Welded piping requires qualified welders and welding documentation.

Please send your complete plans and information to:

COMMERCE
SAFETY AND BUILDINGS DIVISION
141 NW BARSTOW STREET, 4th FLOOR
WAUKESHA WI 53188

Call 262-548-8617/FAX-548-8614 for further information or assistance.

NOTE 1: **Chapter Comm 40 Gas Systems** Effective November 1, 1999, LPG, LNG and CNG plans will be reviewed in accordance with Chapter Comm 40, which includes adoption of NFPA 58, 1998 edition.

NOTE 2: **Chapter Comm 43, Anhydrous Ammonia** Effective October 1, 2000 Anhydrous Ammonia plans will be reviewed in accordance with Chapter Comm 43, which includes adoption of ASME/ANSI K61.1 1999 edition.

NOTE 3: Visit our website for Comm 43 or any other code via the internet @ <http://www.commerce.state.wi.us>, *click Safety and Buildings then click Safety and Buildings Homepage, scroll for "code", click code, scroll to code chapter, click on selected chapter, and print.*

(R3/03)